

CLAIMS

1. Device (1) for injection of a product, in
5 particular for medical use, comprising:

- a body (2) receiving a hollow injection needle (4) and a container (10) containing the product to be injected; the needle (4) and container (10) being
10 movable relative to said body between an injection position and a retracted position;

- means (5 to 7; 28, 29) for holding the needle in position, which means normally hold the needle (4) in said injection position, and which means can be released to permit movement of the needle (4) to said retracted position;

- means (39, 41, 45) for holding the container (10) in position, which means normally hold the container (10) in a position permitting injection, and which means can be released to permit movement of the container (10) to said retracted position;

25 - a piston (11) engaged in the container (10),

characterized in that it additionally comprises:

- first actuating means (42) of means (5 à 7 ; 28, 29) for holding the needle (4) in position,
30 - second actuating means (32) of means (39, 41, 45) for holding the container (10) in position,
- said first and second actuating means (42, 32) making it possible, at the end of the injection, to
35 respectively release the means (5 à 7 ; 28, 29) for holding the needle (4) in position before the release of the means (39, 41, 45) for holding the container (10) in position, or to simultaneously release the means (5 à 7 ; 28, 29) for holding the

needle (4) in position and the means (39, 41, 45) for holding the container (10) in position,

5 - a container support (9) which is mounted slidably on the body (2) and is displaceable relative to the latter in order to perform the injection, said container (10) being connected to this support (9) and being able to move relative to the latter between a position permitting injection and a retracted position,

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- means (3, 47, 48) for holding the container support (9) in position, which means normally hold the container support (9) in a standby position before the injection and can be released in order to permit displacement of the container support (9) and to permit injection,

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20 - means (49) actuating the release of the means (3, 20, 47, 48) for holding the container support (9) permitting injection in position.

25 2. Device (1) according to Claim 1, characterized in that the means (3, 20, 47, 48) for holding the support in position comprise:

30 - a ring (20) mounted in a fixed manner inside the body (2) and in the proximal part of the latter, this ring (20) having at least one transverse tooth (48) at its distal end,

35 - at least one hook (47) situated at the proximal end of the support (9) and intended to clip into said tooth (48),

40 - an injection-activating spring (3) whose distal end bears on a transverse internal step (53) at the distal end of the support (9), and whose

proximal end bears on a transverse wall (54) situated at the distal end of the ring (20), said spring (3) being in the compressed state when the tooth (48) is clipped into the hook (47).

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3. Device (1) according to Claim 2, characterized in that the means (49) activating the release of the

means for holding the support (9) in position are in the form of a button (49) integral with the
10 tooth (48) of the ring (20), said button (49) protruding outside the body (2) through a slot (52) formed in the body (2) for this purpose.

4. Device (1) according to any one of the preceding
15 claims, characterized in that, in the injection position, the needle (4) extends by a distance of 0.5 mm to 3 mm beyond a surface with which the device (1) engages on the patient's skin.